

# ERAS Antibody (N-term) (A28)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1470e

# **Specification**

# ERAS Antibody (N-term) (A28) - Product Information

Application WB, IHC-P,E **Primary Accession** Q7Z444 Reactivity Human Host Rabbit Clonality **Polyclonal** Isotype Rabbit Ig Calculated MW 25287 Antigen Region 20-50

ERAS Antibody (N-term) (A28) - Additional Information

### **Gene ID 3266**

# **Other Names**

GTPase ERas, E-Ras, Embryonic stem cell-expressed Ras, ERAS, HRAS2, HRASP

# **Target/Specificity**

This ERAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20~50 amino acids from the N-terminal region of human ERAS.

# Dilution

WB~~1:1000 IHC-P~~1:10~50

### **Format**

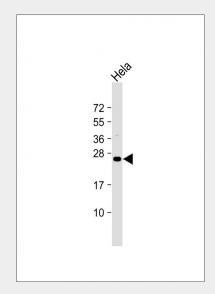
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

# Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

ERAS Antibody (N-term) (A28) is for



Anti-ERAS Antibody (N-term) (A28) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 25 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ERAS antibody (N-term) (A28), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





research use only and not for use in diagnostic or therapeutic procedures.

ERAS Antibody (N-term) (A28) - Protein Information

#### Name ERAS

Synonyms HRAS2, HRASP

#### **Function**

Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the tumor-like growth properties of embryonic stem cells (By similarity).

#### **Cellular Location**

Cell membrane; Lipid-anchor; Cytoplasmic side

# ERAS Antibody (N-term) (A28) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# ERAS Antibody (N-term) (A28) - Background

Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Point mutations of several amino acids of human RAS, including gly12, ala59, or glu63, render the protein constitutively active. Embryonic stem cell-expressed Ras (ERAS) has serine, alanine, and asparagine at the positions corresponding to alv12, ala59, and alu63 of human RAS. suggesting that it is constitutively active. The PI3K (phosphoinositide 3-kinase) pathway is important for proliferation, survival and maintenance of pluripotency in ES cells. The PI3K pathway is activated by growth factors and cytokines including insulin and leukaemia inhibitory factor. In addition to these exogenous factors, the PI3K pathway is endogenously activated by the constitutively active Ras family protein ERas (ES cell-expressed Ras). ERas null ES cells maintained pluripotency but show significantly reduced growth and tumorigenicity, which can be rescued by expression of ERas cDNA or by activated phosphatidylinositol 3-hydroxykinase. The transforming oncogene ERAS appears to be important in the tumor-like growth properties of ES cells.

# ERAS Antibody (N-term) (A28) - References

Kameda,T., Stem Cells 23 (10), 1535-1540 (2005)

Takahashi, K., Nature 423 (6939), 541-545 (2003)

Miyoshi,J., Nucleic Acids Res. 12 (4), 1821-1828 (1984)